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007590 (10) 6490822 December 10, 2002

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6490822

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December 10, 2002

Modular sleeve

APPL-NO: 007590 (10)

FILED-DATE: December 10, 2001

GRANTED-DATE: December 10, 2002

CORE TERMS: sleeve, receiver, handguard, firearm, barrel, interface, channel, rear, longitudinal, modular ...

ENGLISH-ABST:

A Swan universal receiver sleeve attached to the top of a firearm upper receiver and extended forward above the firearm barrel to a position just short of the firearm front sight. The underside of the rear portion of the sleeve is fixedly attached to the receiver top. The underside of the forward portion of the sleeve has an upper handguard piece attached thereto. A bottom handguard piece is fitted about the bottom of the gun barrel and is attached to the upper handguard piece. The handguard pieces are not physically connected in any way to the gun barrel. The sleeve is self supported by the connection of the rear portion underside to the receiver top.

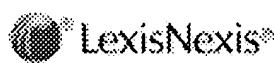
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Segments: Abst, Appl-no

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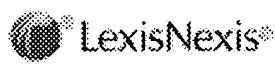
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1 / 1 *PLUSPAT - QUESTEL-ORBIT - image*

Patent Number :
US6490822 B1 20021210 [US6490822]

Title :
(B1) Modular sleeve

Inventor(s) :
(B1) SWAN RICHARD E (US)

Application Nbr :
US759001 20011210 [2001US-0007590]

Filing Details :
Rel. Prov. 60/274,147 20010309 [2001US-P274147]

Priority Details :
US759001 20011210 [2001US-0007590]
US27414701P 20010309 [2001US-P274147]

Intl Patent Class :
(B1) F41C-023/00

EPO ECLA Class :
F41C-023/00
F41C-023/16
F41G-001/387D

US Patent Class :
ORIGINAL (O) : 042071010; CROSS-REFERENCE (X) : 042075010 042124000

Document Type :
Basic

Citations :
US3939589; US4845871; US5010676; US5142806; US5343650; US5412895;
US5533292; US5826363; US6453594

Publication Stage :
(B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001

Abstract :
A Swan universal receiver sleeve attached to the top of a firearm upper receiver and extended forward above the firearm barrel to a position just short of the firearm front sight. The underside of the rear portion of the sleeve is fixedly attached to the receiver top. The underside of the forward portion of the sleeve has an upper handguard piece attached thereto. A bottom handguard piece is fitted about the bottom of the gun barrel and is attached to the upper handguard piece. The handguard pieces are not physically connected in any way to the gun barrel. The sleeve is self supported by the connection of the rear portion underside to the receiver top.

Update Code :
2002-51

1 / 1 *LGST - @EPO*

Patent Number :
US6490822 B1 20021210 [US6490822]

Application Number :
US759001 20011210 [2001US-0007590]

Action Taken :
20040622 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040329

Update Code :
2004-26

1 / 1 CRXX - @CLAIMS/RRX

Patent Number :

6,490,822 A 20021210 [US6490822]

Patent Assignee :

Swan, Richard E

Actions :

20040329 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20040622

REISSUE REQUEST NUMBER: 10/811795

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3644

Reissue Patent Number:

1 / 1 INPADOC - @INPADOC

Patent Number :

US 6490822 BA 20021210 [US6490822]

Title :

Modular sleeve

Inventor(s) :

SWAN RICHARD E [US]

Patent Assignee (Words) :

SWAN RICHARD E [US]

Application Details :

US 7590/01-A 20011210 [2001US-0007590]

Priority Details :

US 7590/01-A 20011210 [2001US-0007590]

US 274147/01-P 20010309 [2001US-P274147]

Intl. Patent Class. :

F41C-023/00

1 / 1 LGST - @EPO

Patent Number :

US6490822 B1 20021210 [US6490822]

Application Number :

US759001 20011210 [2001US-0007590]

Action Taken :

20040622 US/RF-A

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EFFECTIVE DATE: 20040329

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